1.0 INTRODUCTION

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1.1 General Description

MICRATHERM 3 (MT3) is a low-cost, stand-alone, non-contact thermometer and is part of a wide range of infrared thermometers available from LAND Infrared. The MT3 is designed for OEM and end-user installations. Its linear 4 to 20mA output can be integrated into a monitoring or control loop covering temperatures up to 500°C/1000°F.

The MT3 is housed in a rugged, sealed body allowing operation in a variety of industrial environments. Further protection against harsh environments is offered via a discrete cooling jacket and air purge.

The MT3 can be equipped with a plastic window. This enables temperature measurement in those applications where the use of a glass lens is prohibited as in the food industry.

1.2 Specifications			Sales of the last
Temperature ranges:	MT303 MT313 MT323 MT333	0 to 250°C 0 to 500°F 0 to 500°C 0 to 1000°F	
Spectral response:	8 to 14 microns		
Response time:	200msec (exponential)		
Nominal field of view:	See Fig. 1		
Accuracy:	±1% of reading or ±1°C/±2°F which ever is greater		
Repeatability:	±0.5% of reading		
Emissivity range:	0.10 to 0.99 in 0.01 increments		
Ambient range:	0 to 50°C/32 to 120°F		
Power requirements:	18 to 40V d.c.		
Maximum loop resistance:	500 ohms		
Housing:	IP65/NEMA 4		
Weight:	0.5 kg/1.2 lbs		
Standard accessories:	Mounting bracket (MTB) 4.5m/15 ft cable assembly		
Optional accessories:	Power supply	(MTP)	